UNIVERSITY OF MYSORE.

Notification No. 23071, *dated* 28*th March* 1930.

(I) The following is the list of books in Mathematics recommended for study and reference for the B. A. (Hons.) and B. Sc. (Hons.) Degree Examinations.

A. (PURE MATHEMATICS).

(i) Pure Geometry:

BOOKS FOR STUDY.

1. Pure Geometry: Askwith.
2. Projective Geometry: Milne.
3. Plane Geometry for advanced students, Vol. I: C. V. Durell.

BOOKS FOR REFERENCE.

1. Plane Geometry for Advanced Students, Vol. II: C. V. Durell.
2. Pure Geometry: Russel
3. Modern Pure Geometry: J. Lachlan.
4. Projective Geometry: Cremona.
5. Principles of Geometry: Baker, Vol. I.
6. Cross Ratio Geometry: J. J. Milne.
7. Geometrio der lage: Reye (3 Vols.)

(ii) Algebra and Theory of Equations.

BOOKS FOR STUDY.

1. Higher Algebra: Milne.
2. Algebra: C. Smith.
3. Algebra: Pt. II: Chrystal.
4. Theory of Equations: Burnside and Panton, Vol. I.
5. Theory of Equations: Burnside and Panton, Vol. II. (Chapters XIII and XIV only.)
6. Theory of Determinants: Scott.

BOOKS FOR REFERENCE.

1. Cours D' Analyse: Niewengloski, Pt. I.
2. Cours D' Algebra Superieure: J. A. Serret.

(iii) Plane Trigonometry.

BOOKS FOR STUDY.

1. Trigonometry, Pt. II. Loney.
2. Plane Trigonometry: Hobson.

(iv) Co-ordinate Geometry of Two and Three Dimensions.

BOOKS FOR STUDY.

1. Conic Sections: Smith.
2. Analytical Geometry: Askwith.
3. Co-ordinate Geometry Pt. II: Loney.
4. Analytical Conics: Sommerville.
5. Introduction to Modern Analytical Geometry: A. C. Jones.
6. Solid Geometry: Smith.
7. Co-ordinate Geometry of three dimensions: R. J. T. Bell.

BOOKS FOR REFERENCE.

1. Conic Sections: Salmon.
2. Homogeneous Co-ordinates: Milne.
3. Modern Analytical Geometry: Whitworth.
4. Co-ordinate Geometrie: Dr. Beck.
5. Elementaire Mathematik von Hohern Standpunkte: Kleine.
6. Analytische Geometrie (Vols. I & II): Staudt.
7. Analytical Geometry of three dimensions: Salmon Vol. I.
8. Modern Analytical Geometry: C. A. Scott.
9. Solid Geometry: Frost.

(v) Differential and Integral Calculus including Cauchy's Theorem

BOOKS FOR STUDY.

1. Treatise on Differential Calculus: J. Edwards.
2. Integral Calculus: Williamson.
3. Infinitesimal Calculus: Lamb.
4. Calculus; Gibson.
5. Mathematical Analysis, Vol. I: Goursat.
6. Pure Mathematics: Hardy.
7. Complex Variable: Townsend.
8. Curve Tracing: Frost.
9. Theoretische Arithmetik: Stolz and Geneiner.

BOOKS FOR REFERENCE.

1. Integral Calculus, Vols. I & II: Edwards.
2. Advanced Calculus: Wilson.
3. Infinite Series: Bromwich.
4. Infinite Processes: Snail.
5. Fourier's Series and Integrals: Carslaw, Vol. I.
6. Mathematical Analysis, Vol. II, Part I: Goursat.
7. Modern Analysis: Whittaker and Watson.
8. Funktion Lehre: Osgood.
9. Cours D' Analyse: De la Valli Poussin.
10. Complex Integration: Watson.

(vi) Differential Equations.

BOOKS FOR STUDY.

1. Differential Equations: Murray.
2. Differential Equations: Piaggio.

BOOKS FOR REFERENCE.

1. Mathematical Analysis, Vol. II: Pt. II Goursat.
2. Differential Equations: Forsyth.
3. Differential Equations: Boole.

B. (APPLIED MATHEMATICS).

(i) Statics.

BOOKS FOR STUDY.

1. Statics: Loney's
2. Statics: Minchin, Vols. I and II.

BOOKS FOR REFERENCE.

1. Statics Routh, Vol. I.
2. Graphic Statics: Cremona.

(ii) & (iii) Dynamics of a Particle and of a Rigid Body.

BOOKS FOR STUDY.

1. Dynamics of a Particle and a Rigid Body: Loney.
2. Dynamics: Lamb.
3. Dynamics: Besant and Ramsey.

BOOKS FOR REFERENCE.

1. Particle Dynamics: Routh.
2. Elementary Rigid Dynamics: Routh.
3. Higher Mechanics: Lamb.
4. Dynamics of Particles, Rigid Bodies and of Fluids: Webster.

(iv) Introduction to Mathematical Physics.

BOOKS FOR STDUY.

1. Introduction to Mathematical Physics: Houston.
2. Theoretical Physics: Haas. Vols. I and II.
3. Fourier Series and Spherical Harmonics: Byerly.

BOOKS FOR REFERENCE

1. Spherical Harmonics : Mac Robert.
2. Vector Analysis, Vols. I and II : Weatherburn.
3. Methods of Mathematical Physics : Hibbert, and Courant.
4. Partial Differential Equations of Mathematical Physics : Weber Riemann

C. (SPECIAL SUBJECTS).

B.A. (Honours) Course.

(i) Theory of Functions of a Complex Variable.

BOOKS FOR STUDY.

1. Mathematical Analysis . Vol. II. Pt. I : Goursat.
2. Complex variable : Townsend.
3. Complex variable : Mac Robert.
4. Complex Integration : Watson.
5. Modern Analysis : Whittaker and Watson.
6. Theory of Functions : Harkness and Morley.
7. Lehrbuch der Funktionen-theorie : Osgood.

BOOKS FOR REFERENCE.

1. Theory of Functions : Forsyth.
2. Functions of a Complex Variable : Pierpont.
3. Integral Functions : Borel.
4. Calculus of Residues : Lindloff.
5. Automorphic Functions : Schlesinger.
6. Vorlesungen Uber Allgemaine Funktion—Theorie : Herwitz-Courant.
7. Ergebinisse der neure Funktion Theorie : Landau.
8. Lectures on the Theory of Integral Functions : Valeron.

(ii) Projective Geometry.

BOOKS FOR STUDY.

1. Projective Geometry : Mathews.
2. Pure Geometry for Advanced Students : C. V. Durell II.
3. Projective Geometry : Cremona.
4. Axioms of Projective Geometry : Whitehead.
5. Principles of Projective Geometry : Hatton.

BOOKS FOR REFERENCE.

1. Projective Geometry, Vols. I and II : Veblen and Young.
2. Hohere geometric : Klein.

(iii) Non-Euclidean Geometry.

BOOKS FOR STUDY.

1. Non-Euclidean Geometry : Coolidge.
2. Do do : Sommerville.
3. Geometry of four dimensions : Manning.
4. Geometry of four dimensions : Neville.

BOOKS FOR REFERENCE.

1. Science of Absolute Space ; Bolyai.
2. Principles of Geometry, I and IV : Baker.
3. Geometry of Hyper-space, Vols. I and II : Ganguly.
4. Non-Euclidean Geometry : Bonola.
5. Newe Geometrie : Pasch und Dehn.

(iv) Linear Differential Equations.

BOOKS FOR STUDY.

1. Treatise on Differential Equations : Forsyth.
2. Mathematical Analysis, Vol. II, Pt. II : Goursat.
3. Linear Differential Equiatations : E. L. Ince.
4. Linear differential gleichungen : Schlesinger.

BOOKS FOR REFERENCE.

1. Theory of Differential Equations, Pt. III, Vol. 4: Forsyth.
2. Cours d'Analysis, Vol, III: Jordan.
3. Traite d'Analyse, III: Picard.
4. Theory of differential Equitations: Painsleve.

(v) Elliptic Functions.

BOOKS FOR STUDY.

1. Elliptic Functions: Montessus.
2. " : Hancock.
3. Modern Analysis: Whittaker and Watson.
4. Theorie et applications des fonctions elliptique: Appell et Lacour.
5. Vorlesungen uber allgemaine Fonktion-theorie: Hurwitz—Courant.

BOOKS FOR REFERENCE.

1. Elliptic Functions: Tannerie and Molke (Four Vols).
2. " : Greenhill.
3. Functions Elliptique: A Henrie.
4. Elliptic Functions, Vols. I and II: Fricke.

(vi) Theory of Numbers.

BOOKS FOR STUDY AND REFERENCE.

1. Theory of Algebraic Numbers: Reid.
2. Theory of Numbers: Mathews.
3. Report on the Theory of Numbers: Smith.

BOOKS FOR REFERENCE.

1. Essays on the theory of Numbers: Dedikand.
2. Theorie der prime Zahlen, Vols. I and II, Landau.
3. Volesungen uber Zahlen, Theorie Vols. I to III: Landau.
4. Zahlen Theorie (6 Vols): Bachman.

(vii) Theory of Integral Equations.

BOOKS FOR STUDY.

1. Modern Analysis: Whittaker and Watson. (Chapter on Integral Equations.
2. Integral Equations: Maxime Bocher.
3. Integral Equations: Lovitt.

BOOKS FOR REFERENCE.

1. Integral Gleichungen; Kneser.
2. Methodender Mathematicsche Physik:—Hilbert-Courant.
3. Cours' d' Analyse Vol. III: Goursat.
4. Encyclopedia der Mathematische: Wissenshaften.
   (Article on Integral Equations.)

(viii) Theory of functions of a Real Variable.

BOOKS FOR STUDY.

1. Real Variable, Vols. I and II: Hobson.
2. Sets of Points: Young.
3. Real Variable: Vols. I and II: Pierpont.
4. Fundamental Theorems in Differential Calculus: Young (Tract).
5. Theory of Integration: Young (Tract).

BOOKS FOR REFERENCE.

1. Transfinite Numbers: Cantor.
2. Essays on Theory of Numbers: Dedekind.
3. Zehrn Vorlesungen uber Mengen Lehre: Frankel.
4. Vorlesungen Uber Real Funktioneri: Carethiodiery.
5. Real Funktioneri: Hans Hahn.
6. Transfinite Numbers: Sieripinski.

BOOKS FOR STUDY.

1. Differential Geometry: Forsyth.
2. Differential Geometry: Eisenhart.
3. Geometrical Analysis: Bagchi.
4. Analyatical Geometry of three dimensions: Salmon. Vols. I and II.

BOOKS FOR REFERENCE.

1. Theory of Surfaces: Darboux.
2. Differential Geometry: Blasche.
3. Differential Geometry: Bianchi.

(x) Astronomy.

BOOKS FOR STUDY.

1. Astronomy: Godfray.
2. Astronomy: Bryan and Barlow.
3. Spherical Astronomy: Ball.
4. General Astronomy: Young.

BOOKS FOR REFERENCE.

1. General Astronomy: Jones.
2. Astronomy Vols. I and II: Chauvenet.
3. Astronomy: Newcomb.

(xi) Optics

BOOKS FOY STUDY AND REFERENCE.

1. Optics: Drude.
2. Theoretical Physics. Vol. I. Haas.
3. Optics: Houston.
4. Do Preston.
5. Optical Theories: Mullick.

(xii) Hydrostatics.

BOOKS FOR STUDY AND REFEHENCE.

1. Hydrostatics: Besant and Ramsay.
2. Hydrostatics: Minchin. Vols. I and II.
3. Hydrostatics: Green-hill.

(xiii) Electricity and Magnetism.

BOOKS FOR STUDY AND REFERENCE.

1. Electricty and Magnetism: Pidduck.
2. Do do Jeans.
3. Do do Maxwell.
4. Precis de electricite: E. Bloch.
5. Electricity and Magnetism: Webster.
6. Theoretical Physics, Vol. I: Haas.
7. Newtonian Potential Function: Pierce.

(xiv) Thermo-Dynamics.

BOOKS FOR STUDY AND REFERENCE.

1. Thermo Dynamics: Planck.
2. Do Duhen.
3. Theoretical Physics, Vol. II.—Hass.
4. Mathematical Physics: Houston (Chapter on Thermo-dynamics).
5. Thermo-dynamics: Birt Wistle.
6. Statistical Mechanics: Fowler.

B.Sc (Honours) Course.

(i) Astronomy and Astro-physics.

BOOKS FOR STUDY AND REEERENCE.

1. Spherical Astronomy: Ball.
2. Astronomy. Vols. I and II: Chauvenet.
3. Do Newcomb.
4. Do and Astrophysics: Vols. I and II. H. N. Russell.
5. Stellar Movements and Sturucture of the Universe: Eddington.
6. Handworter Buchder Astronomie: Valentine.

BOOKS FOR STUDY.

1. Analytical Dynamics: Whittaker.
2. Advanced Rigid Dynamics: Routh.
3. Higher Mechanics: Lamb.
4. Dynamics: Webster.
5. Precis de Mecanique: Appell and Deutherille.

BOOKS FOR REFERENCE.

1. Theorie der Kriesels: Kleine and Sommerfield.
2. Mecanique Rationalle: Appell (4 Vols.)

(iv) Hydro-Mechanics.

BOOKS FOR STUDY.

1. Hydro-Mechanics: Vols. I and II; Ramsay and Besant.
2. Hydro-Dynamics: Lamb.

BOOKS FOR REFERENCE.

1. Vorrage ans der Gebiete der Hydro und Aero dynamik by Karman Lavicevita.

(v) Celestial-Mechanics.

BOOKS FOR STUDY.

1. Celestial-Mechanics: Moulton.
2. Dynamical-Astronomy: Plummer.
3. Mechanic Celeste Vols. I and II: Andoyer.

(vi) Attractions and Potentials.

BOOKS FOR STUDY AND REFERENCE.

1. Statics; Vol. II: Routh.
2. Do Vol. II: Minchin.
3. Newtonian Potential: Pierce.
4. Do do Poincare.
5. Attractions, Vols. I and II: Tarlton.
6. Fourier's Series and Spherical Harmonics: Byerly.

(vii) Theory of Elasticity.

BOOKS FOR STUDY.

1. Theory of Elasticity: Love.
2. History of Theory of Elasticity: Todhunter and Pearson.

(II) The following is the list of books in Statistics, Economics, etc., recommended for the B.A. (Pass), B.Sc. (Pass) and B.A. (Hons.) Courses.

(i) B.A. and B.Sc. (Pass) Courses.

1. Bowley: "Elements of Statistics"
2. "Economics Educator" Series—Chapters on Statistics.
3. Thorndike; "Social Measurements."
4. Jones: A course in Statistics.
5. Marshall: "Principles of Economics" (Mathematical Appendix only).
6. Brown and Thompson: Essentials of Mental Measurement.

(ii) B.A. (Honours) Course:

1. Mills: "Satatistical Method."
2. Rietz: "Handbook of Mathematical Statistics."
3. Arne Fisher: "Probability and Frequency Curves."
4. U. Yule: Elements of Statistics.
5. Cournot: "Principles des Riches" trans: by Irving Fisher.
6. Selected papers on Mathematical Economics, by Pigou, Edgeworth, Bowley and Irving Fisher.
7. Coolidge: "Probability."
8. A Henry: "Probability and Calculus."
9. King: Text-Book of the Institute of Actuaries (Part II).
10. Spurgeon: "Life Contingencies."
11. Burn and Brown: Finite Differences.
12. Whittakar and Robinson, Calculus of Observations.